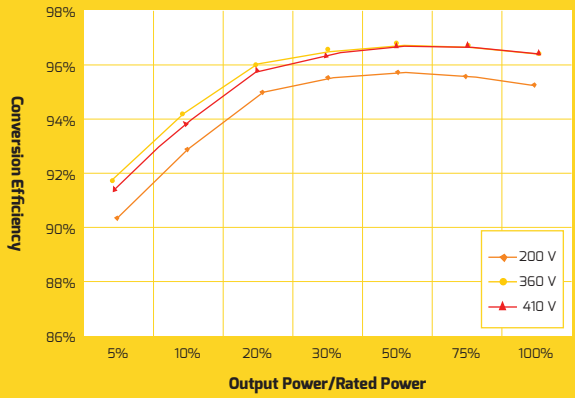
Single-Phase String Inverters 1 kW to 5 kW

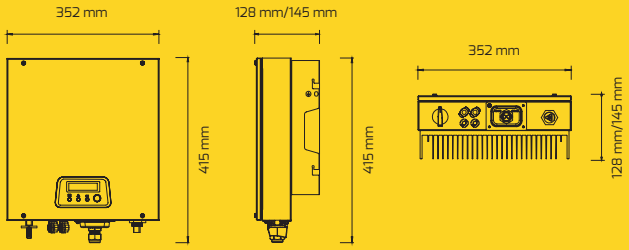
Our single-phase string inverters are one of the most cost-effective inverters on the market. They perfectly match the needs of most residential applications and offer the maximum energy yield in a wide range of locations and situations around the world, while being easy to use and to install.

Eversol TL Series

Conversion efficiency

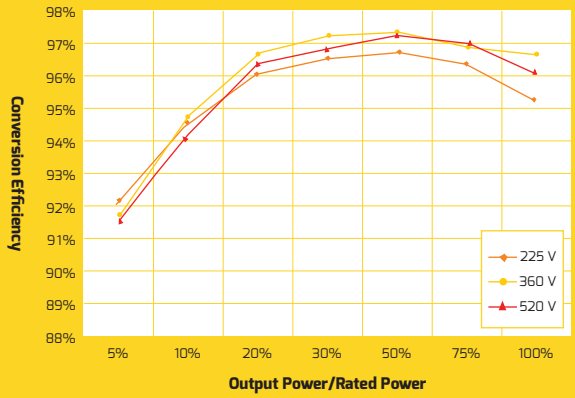


Technical data

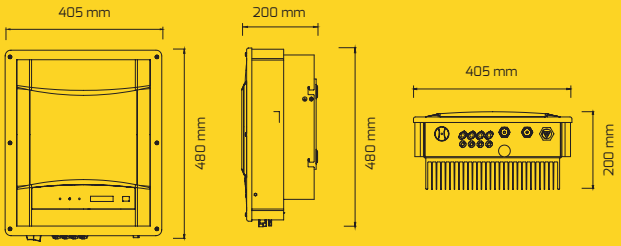


Evershine TL Series

Conversion efficiency



Technical data



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Single-Phase String Inverters 1 kW to 5 kW

Technical data	Eversol *** TL1000	Eversol TL1500	Eversol TL2000	Eversol TL3000	Evershine TL3680	Evershine TL5000
DC input data						
Max. PV array power [W]	1300	2000	2400	3500	4000	5300
Max. DC voltage [V]	500				600	
Rated input voltage [V]	360					
MPP voltage range [V]	90-450				125-520	
Full load MPP voltage range [V]	95-450	150-450	200-450		200-520	225-520
Switch-off DC voltage [V]	70				90	
Start voltage [V]	95	125			150	
Max. DC current [A]	12			18	15/15	
Max. number of parallel inputs	1			2	2/2	
Number of MPP trackers	1				2	
Switch-on power [W]	10				10	
Output data						
Rated AC power [W]**	1000	1500	2000	3000	3680	4600 (GER/AUS)/ 5000 (other)
Max. apparent AC Power [VA]	1100	1650	2000	3000	3680	4600 (GER/AUS)/ 5000 (other)
Rated AC grid voltage [V]*	220,230,240					
Rated AC grid frequency [Hz]*	50	50/60				
AC voltage range [V]*	180-280					
AC frequency range [Hz]	According to local codes					
Rated current @ 230 Vac [A]	4.5	6.5	8.7	13	16	20 (GER/AUS)/21.7 (other)
Max. output current [A]	5.5	9	11	16	16	25
Power factor	> 0.99 (0.95 inductive ... 0.95 capacitive)					
Harmonic distortion (THD) at rated output	< 3%	2%			< 3%	
Power consumption at night [W]	< 1					
Power consumption at standby [W]	6					
MPPT efficiency						
MPPT adaptation efficiency	99.50%				99.90%	
Conversion efficiency						
Max. efficiency	95.60%	97.00%			97.00%	97.30%
European weighted efficiency	95.00%	96.50%			96.20%	96.50%
Safety equipment						
DC insulation monitoring	Integrated					
Earth fault protection	Integrated					
Mains monitoring	Integrated					
Earth fault current monitoring	Integrated					
DC current monitoring	Integrated					
General data						
Dimensions (WxHxD) [mm]	352 x 415 x 128			352 x 415 x 145	405 x 480 x 200	
Weight [kg]	11.5			14	19.5	
Installation environment	Indoor and outdoor					
Mounting information	Wall mounting bracket					
Operating temperature range	-25°C ... +60°C (derating in case of temperatures above 45°C)					
Relative humidity	0% to 100%, no condensation					
IP protection type	IP65 as per IEC60529					
Insulation type	Transformerless					
Cooling concept	Convection					
Noise level	<20 dB(A)@1m				< 30 dB(A)@1m	
LCD display	Text line, 16 x 2 characters					
Communication interface	RS485					
Firmware updates interface	RS485				USB/RS485	
Certificates and approvals	G83/2, IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, NEN50438	IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, IEC62109-1, IEC62109-2, AS/NZS3100, VDE-AR-N 4105, AS4777.2, AS4777.3, C10/11, UTEC 15-712-1,NEN50438, G83/2, EN50438,VDE0126-1-1/AI:2012, VDE0126-1-1:2013			IEC62109-1, IEC62109-2, IEC61000-6-2, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3, NEN50438, VDE0126-1-1/AI:2012, VDE0126-1-1:2013, G83/2	IEC62109-1, IEC62109-2, IEC61000-6-2,IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, AS/NZS3100, AS4777.2, AS4777.3, VDE-AR-N4105, UTEC15-712-1,NEN50438, G59/3, EN50438, VDE0126-1-1/AI:2012, C10/11, VDE0126-1-1:2013

* The data may vary depending on the local grid standards.

** Within the scope of the EEG law an active power limitation according to current nationality EEG is preset, which can be adjusted at any time when connected to a Power Monitoring Unit. (For Germany only)

*** Available from September 30th 2014. Please contact your local sales team for further information.

As of July, 2014 / Technical data is subject to revisions.